

Procedure No: GSI/SOP/G/A/RK/1 Date Issued: August 14, 2009

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## GREAT SHIPS INITIATIVE (GSI) STANDARD OPERATING PROCEDURE (SOP) DEVIATION FORM

**DATE/TIME:** 9/16/2009 (Form Completed 10/26/2009)

**TEST ID NUMBER: 09-SI-4** 

**RDTE FACILITY OR BENCH-SCALE TESTING?** Research, Testing, and Evaluation Facility Test **GSI RESEARCH TEAM MEMBER NAME/TITLE:** Kelsey R. Prihoda, GSI Assistant QA/QC Officer

Deviation	Description of Deviation	Detailed Description of	Description of Corrective
Number	(Include SOP Number and Title)	Impact on Study (If Any)	Actions Taken (If Needed)
	SOP No: GSI/SOP/BS/RA/RT/6 — Procedure for Assessing Chronic Residual Toxicity of a Ballast Treatment System to Ceriodaphnia dubia. ¶5. C. dubia were acclimated for 6 hours prior to WET Test set-up. Neonate C. dubia must be acclimated for approximately 24 hours at test temperature by transferring <24 hour old neonates from brood boards to 50% culture water (i.e., hard reconstituted water)/50% test	There is not an impact on Trial 4.C. dubia WET Test as a result of this deviation. This test met the test acceptability criteria for C. dubia as set by the US EPA.	No corrective action was taken at the time of the deviation. <i>C. dubia</i> were acclimated for approximately 24 hours in preparation for Trials 5-7 WET Testing:
2	water SOP No: GSI/SOP/BS/RA/RT/8 — Procedure for Assessing Chronic Residual Toxicity of a Ballast Water Treatment System to the Green Alga (Selenastrum capricornutum; DRAFT). Section "Test Procedure", ¶5. Average initial S. capricornutum density was 102,679 cells/mL. Each milliliter of inoculum must contain enough cells to provide an initial cell density of approximately 10,000 cells/mL (± 10%) in the test flasks.	At this time it is not clear what the impact on the Selenastrum WET will be. Corrective action will be taken for future trials.	No corrective action was taken at the time of the deviation.
3	SOP No: GSI/SOP/BS/RA/RT/8 — Procedure for Assessing Chronic Residual Toxicity of a Ballast	The impact on Trial 4 WET Testing as a result of this deviation is that there is	No corrective action was taken at the time of deviation. It will be

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Water Freatment System to the	m vienii ricitaisii ken eelin ja kan oo taa eelin j	s enachtentictexonductication
Green Alga (Seierrastnum		caunts on 5. copricornutum
copricorputum, DRAFTI, Section		. Will Tests in the future in
"QA/QC", ¶4. There was no IQA	Test 1	::order to determine an-
count conducted during the S		racceptable level of bies
capricornutum WET Test. A QA		
count of the algae coll		
concentration in at least 10 % of		
. The tear chambers must be much		
performed during every trial.		

GSI Research Team Member Comments: No additional comments regarding WET Testing SOP Deviations.

Signature: Kelsey R. Prihoda

**GSI Co-Lead On-Site Investigator Comments:** 

Signature: Matthew TenEyck

**GSI Principal Investigator Comments:** 

Signature: Allegra

Cangelosi

Digitally signed by Allegra Cangelosi DN: cn=Allegra Cangelosi, o=NEMWI, ou, email=acangelo@nemw.org, c=US Date: 2009.11.06 11:49:21 -05'00'